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Harding Lawson Associates

equipment. After overdrilling, all borings will be backfilled through the augers with cement-bentonite grout from total depth to ten feet below ground surface (bgs), with the remaining borehole backfilled with concrete to the surface (or as directed by the DHS).

- An HLA geologist will be present to oversee the deconstruction of each monitoring well. A PID will be used to for health and safety air monitoring during drilling. Field logs will be maintained to document all field activities.
- All drilling equipment will be decontaminated before each use by steam cleaning.

#### Waste storage, hauling, and disposal

- Purge and decontamination water from the groundwater sampling and well abandonment will be stored in 55-gallon drums (provided by HLA) and will remain on-site pending receipt and evaluation of waste disposal profile test data. Costs quoted in this proposal assume that seven 55-gallon drums of wastewater will be generated.
- Wastes from the well abandonment activities (well materials, sand pack, scaling materials) will be contained in a roll-off bin (provided by HLA) and will remain on-site pending receipt and evaluation of waste disposal profile test data. Costs quoted in this proposal assume that one ten yard bin will be required with a two-week rental rate.
- Profiling of the wastes generated from the above activities will be performed by BC Analytical and analyzed by EPA Method 8260, EPA Method 418.1, EPA Method 8082, and for Title 22 CAM Metals. Costs quoted in this proposal assume that three samples will be required; one from the wastewater drums and two from the soil bin.
- Upon receipt and evaluation of the analytical profiling test data, all wastes will be removed from the property for disposal. Costs quoted in this proposal assume that the waste will be disposed as a non-hazardous material.

#### Reporting

Upon receipt of the test results, HLA will prepare a letter report summarizing the groundwater sampling and well abandonment activities. The report will include a site plan of the well locations, copies of the laboratory test data, and well deconstruction permits. The report will be prepared under the supervision of a California Registered Geologist. The reports will initially be prepared in draft form to allow for review and comment by IES. A final report will then be prepared based on comments by IES.

#### ASSUMPTIONS/EXCLUSIONS

The following assumptions and exclusions have been made in preparing this proposal:

- Unencumbered access to the site and wells
- Cost assumes Level D Personal Protective Equipment (PPE)
- Cost assumes waste transport and disposal as Non-Hazardous.